Claims

1. A busbar system, having a mounting unit (2) for receiving several busbars (4) in electrically insulating busbar holders (3), and at least one connecting or device adapter (1), which has a receiving bridge (1.1) for receiving terminals or devices (8), and is embodied for the electrical connection of the same with the busbars,

characterized in that

the mounting unit (2) has holding segments (2.21, 2.31) along lateral longitudinal edge sections (2.2, 2.3), which extend parallel with each other, and that on its two oppositely located end sections the at least one adapter (1) is provided with a first and a second fastening section (1.2, 1.3), which are matched to the edge sections (2.2, 2.3) to which they are or can be assigned, and are provided with holding elements (1.21, 1.31), which work together with the holding segments (2.21, 2.31) for fixing the adapter (1) in place.

2. The busbar system in accordance with claim 1,

characterized in that

the edge sections (2.2, 2.3) have strips, which protrude from a mounting plane and on whose protruding end sections the holding segments (2.21, 2.31) have been formed.

3. The busbar system in accordance with claim 3,

characterized in that

the holding segments (2.21, 2.31) are embodied as laterally outwardly angled holding structures and/or have rows of fastening receivers (2.22).

4. The busbar system in accordance with one of the preceding claims, characterized in that

the mounting unit (2) is embodied in cross section as a shallow U-shaped trough with a base section, on which the lateral edge sections (2.2, 2.3) have been formed and angled off, or have been attached as separate angular profiled sections, and

the busbars (4) can be fixed in place in the trough by means of busbar holders (3), which are arranged transversely in respect to the mounting unit (2).

5. The busbar system in accordance with one of the preceding claims, characterized in that

a first one of the holding elements (1.11) is embodied as a hook element, which can be adjusted against an opposing spring force for releasing the adapter (1), and a second one of the holding elements (1.21) is embodied as a hook element, which is fixedly connected with the associate fastening section (1.3).

6. The busbar system in accordance with one of the preceding claims, characterized in that

several contact elements (1.4), which extend in the longitudinal direction of the adapter (1), are seated in the underside of the insulating receiving bridge (1.1) which faces the mounting unit (2), by means of which an electrical contact with the associated busbars (4) is provided on the one hand and, on the other hand, a connection with a connection section (1.6), which has been formed in at least one end section of the adapter (1), is made.

7. The busbar system in accordance with claim 6,

characterized in that

the contact elements (1.4) are embodied to be springy and/or are charged with a spring force in such a way that a contact pressure is created with a contact section of the contact elements (1.4) on the outside of the associated busbars (4) facing away from the mounting unit (2).

8. The busbar system in accordance with one of the preceding claims,

characterized in that

coupling means (6, 7) for attaching devices (8) to be received are provided on the top of the receiving bridge (1.1) facing away from the mounting unit (2), which can be electrically connected by means of connecting lines (5) via connecting receivers (1.7) in the top of the end section of the adapter (8).

9. A connecting or device adapter for use with a busbar system in accordance with claim 1, having a receiving bridge (1.1) on whose top facing away from the busbar (4) to be contacted devices (8) to be electrically connected with the busbars (4) can be arranged, and on whose underside contact elements (1.4) for providing an electrical contact with associated busbars (4) are arranged,

characterized in that

a first and a second fastening section (1.2, 1.3), which are provided with holding elements (1.21, 1.23) for securing the adapter (1) on a mounting unit (2) outside of the area

of contact sections of the contact elements (1.4), are embodied on the underside of the two narrow end elements of the adapter (1).

10. The adapter in accordance with claim 9,

characterized in that

the holding elements (1.21, 1.31) are embodied as hook elements, at least one of which is adjustably seated.

New Claims

1. A busbar system, having a mounting unit (2) for receiving several busbars (4), and at least one connecting or device adapter (1), which has a receiving bridge (1.1) for receiving terminals or devices (8), and is embodied for the electrical connection of the same with the busbars, wherein the mounting unit (2), embodied in cross section as a shallow U-shaped trough with a base section (2.1), has holding segments (2.21, 2.31) along lateral longitudinal edge sections (2.2, 2.3), which extend parallel with each other, and that on its two oppositely located end sections the at least one adapter (1) is provided with a first and a second fastening section (1.2, 1.3), which are matched to the edge sections (2.2, 2.3) to which they are or can be assigned, and are provided with holding elements (1.21, 1.31), which work together with the holding segments (2.21, 2.31) for fixing the adapter (1) in place,

characterized in that

for fixing the busbars (4) in place in the mounting unit (2), electrically insulating busbar holders (3) are arranged transversely in respect to the latter in the trough, wherein the busbars (4) are seated on the top of the busbar holder (3) facing away from the base section (2.1) in a lower part (3.1) of the holder, and are fixed in place by means of a screwed or snapped on top (3.2).

2. The busbar system in accordance with claim 1,

characterized in that

the edge sections (2.2, 2.3) have strips, which protrude from a mounting plane and on whose protruding end sections the holding segments (2.21, 2.31) have been formed.

3. The busbar system in accordance with claim 3,

characterized in that

the holding segments (2.21, 2.31) are embodied as laterally outwardly angled holding structures and/or have rows of fastening receivers (2.22).

4. The busbar system in accordance with one of the preceding claims,

characterized in that

the lateral edge sections (2.2, 2.3) have been formed and angled off, or have been attached as separate angular profiled sections, to the base section.

5. The busbar system in accordance with one of the preceding claims,

characterized in that

a first one of the holding elements (1.11) is embodied as a hook element, which can be adjusted against an opposing spring force for releasing the adapter (1), and a second one of the holding elements (1.21) is embodied as a hook element, which is fixedly connected with the associate fastening section (1.3).

6. The busbar system in accordance with one of the preceding claims, characterized in that

several contact elements (1.4), which extend in the longitudinal direction of the adapter (1), are seated in the underside of the insulating receiving bridge (1.1) which faces the mounting unit (2), by means of which an electrical contact with the associated busbars (4) is provided on the one hand and, on the other hand, a connection with a connection section (1.6), which has been formed in at least one end section of the adapter (1), is made.

7. The busbar system in accordance with claim 6, characterized in that

the contact elements (1.4) are embodied to be springy and/or are charged with a spring force in such a way that a contact pressure is created with a contact section of the contact elements (1.4) on the outside of the associated busbars (4) facing away from the mounting unit (2).

8. The busbar system in accordance with one of the preceding claims, characterized in that

coupling means (6, 7) for attaching devices (8) to be received are provided on the top of the receiving bridge (1.1) facing away from the mounting unit (2), which can be electrically connected by means of connecting lines (5) via connecting receivers (1.7) in the top of the end section of the adapter (8).

9. A connecting or device adapter for use with a busbar system in accordance with claim 1, having a receiving bridge (1.1) on whose top facing away from the busbar (4) to be contacted devices (8) to be electrically connected with the busbars (4) can be arranged, and on whose underside contact elements (1.4) for providing an electrical contact with associated busbars (4) are arranged,

characterized in that

a first and a second fastening section (1.2, 1.3), which are provided with holding elements (1.21, 1.23) for securing the adapter (1) on a mounting unit (2) outside of the area of contact sections of the contact elements (1.4), are embodied on the underside of the two narrow end elements of the adapter (1).

10. The adapter in accordance with claim 9,

characterized in that

the holding elements (1.21, 1.31) are embodied as hook elements, at least one of which is adjustably seated.